

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MITIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

APPENDIX E

DISTRICT 4 DOCUMENTATION

Meeting Sign-in Sheets
Meeting Minutes
Survey Results
Mitigation Projects

SOUTHEAST MONTANA JURISDICTIONS

Carter County
Custer County
Dawson County
Fallon County
Garfield County
McCone County
Prairie County
Powder River County
Richland County
Wibaux County

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Sign-in Sheets

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/28/07

LOCATION: Miles City - District 4

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetatech.com
Carol Hellyer	Harfield Co. DES	166	chellyer@midrivers.com
NORMAN R. TARRANT	DMA/PES	- 1 -	pyper50@midrivers.com
John Marks	City of Miles City	- 1 -	jmarks@miles-city-mt.org
Joy Fleming	City of Miles City	1	jffleming@miles-city-mt.org
Gary Zuroff	City of Glendive	150 150	zuroffg@midrivers.com
George Lane	City of Glendive / Fire Chief	150 150	lane@midrivers.com
Jody Menyhart	Custer Co. - Nursing & preparedness	1	j.menyhart@co.custer.mt.us
Alan Stempel	McCone County DES	160	alan.stempel@us.army.mil
Jim Zabrocki	Custer County Sanitarian / DES		des at midrivers.com
Jack A. Nesbit	Custer Co. Commissioner	—	J.Nesbit@co.custer.mt.us
Clyde Leischner	Holy Rosary Healthcare		Clyde.leischner@hrh-mt.org

Meeting State Time: 0905

Meeting End Time: 11:15

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/28/07

LOCATION: Miles City, MT

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Mik Huler	Custer County Commissioner		
Kent Atwood	MT-DES	330	Katwood@mt.gov
Derrick Rodgers	Miles City Fire Dept	0	drodgers@miles-city-mt.org
Wendy Richards	Custer Co. Public Health	0	w.richards@co.custer.mt.us

Meeting State Time: 0905

Meeting End Time: 11:15

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/28/07

LOCATION: Sidney - District #4

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetratech.com
KENT ATWOOD	MT-DES	485.	katwood@mt.gov
Rob Gilbert JR.	SUFD + Richland Co., DES	0	sufd@midrivers.com

Meeting State Time: 5:15

Meeting End Time: 6:00

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Minutes

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Wednesday, March 28, 2007

Time: 9:05 am – 11:15 am

Place: Miles City, Montana

Meeting Attendance:

Carol Hellyer, Garfield County DES

Norman R Tarrent, DMA/DES

John Marks, City of Miles City

Joy Fleming, City of Miles City

Gary Zuroff, City of Glendive

George Lane, City of Glendive/Fire Chief

Jody Menyhart, Custer County Nursing & Preparedness

Alan Stempel, McCone County DES

Jim Zabrocki, Custer County Sanitarian/DES

Jack Nesbit, Custer County Commissioner

Clyde Leischner, Holy Rosary Healthcare

Milo Huber, Custer County Commissioner

Derrick Rodgers, Miles City Fire Department

Wendy Richards, Custer County Public Health

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

HAZARDS AFFECTING DISTRICT 4

Meeting Discussion on Hazards Affecting District 4

Possible addition of Public Health hazard and Bio-Terrorism hazard to the State Plan.

These hazards have the potential to impact a lot of people and should be in the State Plan rather than the local plans.

DNRC sent out a flyer asking local governments to consider implementing set backs along the rivers and streams in Montana. Dawson County noted that Glendive currently does not allow building behind the dike in the city. Additionally, Glendive has floodplain acquisition projects that still have potential.

City of Miles City is considering acquiring property in the floodplain for taxes; structures would then be relocated or demolished using PDMC. The delinquent taxes could be used for cost share match. Additionally, Miles City Tongue River Slough project is still pending and has potential for a PDMC project application.

ASSESSMENT OF HAZARDS – DISTRICT 4

Drought

Garfield – Change Not Assessed to High

McCone - High

Richland - High

Dawson – Change Medium to High

Prairie - High

Wibaux - High

Custer - Medium

Fallon - Medium

Powder River – Not Assessed

Carter – High

It was noted that some counties had a different perspective at the time their PDM was written on what defined the drought hazard. Risk ratings for Dawson County depended on who attended the public meetings when the plan was being drafted; the top five risks were identified and prioritized with regard to time, effort and money. Dawson County noted that they stand out as an anomaly next to the surrounding counties. Their rating should be changed to high risk and the change should be presented at the annual LEPC meeting and a copy of changes faxed to the MT-DES and FEMA. Additionally, the County noted that Dawson Co. irrigation district can pump water out of Yellowstone, but wondered if irrigators had to ask the Crow to release waters?

Garfield County originally thought that drought was an unlikely mitigation action and consequently did not assess this hazard. Their risk rating is upgraded to high and this change will be addressed with their LEPC.

Earthquake

Garfield - Low

McCone - Low

Richland - Low

Dawson – Change Not Assessed to Low

Prairie - Change Not Assessed to Low

Wibaux - Change Not Assessed to Low

Custer - Change Not Assessed to Low

Fallon - Change Not Assessed to Low

Powder River - Low

Carter - Low

All counties with no risk assessment for earthquakes were upgraded to low. Earthquakes that happen in Missoula have a high probability of indirectly affecting power, roads, infrastructure etc. in the rest of the state.

Flood

Garfield – Change High to Low

McCone - High

Richland - Medium
Dawson - High
Prairie - Medium
Wibaux - High
Custer – Change Medium to High
Fallon - Medium
Powder River - High
Carter - Low

Risk in Custer County is upgraded to high because Miles City is rated high for possible flooding. Additionally, a breach of the Tongue River Reservoir would affect a large part of Custer County.

Garfield County noted that their originally high risk rating should be changed to low.

Hazardous Material Incident

Garfield - Medium
McCone - Medium
Richland - Medium
Dawson – Change Low to High
Prairie – Change Low to High
Wibaux – Change Medium to High
Custer - Low
Fallon - High
Powder River - High
Carter – Change Low to High

Participants noted that Custer, Prairie, Dawson and Wibaux counties should be upgraded to high risk as major transportation corridors run through these counties. Additionally, it was observed that the Updated State PDM Plan should identify all transportation corridors through the state and rate their associated jurisdictions as high for hazardous material incident hazard.

Landslide

Garfield – Not Assessed
McCone – Not Assessed
Richland - Medium
Dawson - Not Assessed
Prairie - Not Assessed
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Not Assessed
Carter – Low

Participants questioned the risk ratings for Richland and Carter counties.

Severe Thunderstorms, Hail, Wind and Tornadoes

Garfield - High
McCone - High
Richland - Medium
Dawson – Change Low to High
Prairie - Medium
Wibaux - Low
Custer - Medium
Fallon - Low
Powder River - High
Carter - High

It was noted that Dawson, Wibaux and Fallon were rated as low risk for severe summer weather. Dawson County requested an upgrade to high risk. Severe summer weather puts lives and property values at risk. Economic value loss and cost benefit should also be considered.

Three years ago when the State Plan was crafted, severe summer weather was discussed in depth but no consensus on priority was achieved. The last few years have shown that Presidential disasters have been issued as a result of severe weather and participants suggested that this be reflected in a higher priority for this hazard.

Terrorism and Violence

Garfield - Low
McCone – Not Assessed
Richland - Not Assessed
Dawson - Not Assessed
Prairie – Change from Not Assessed to Low
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Low
Carter – Low

Garfield County noted that a cell of Freeman still reside in the county so a low risk rating for terrorism and violence is appropriate.

Prairie County is upgraded to low risk as they had some terrorism and violence that caused them to build a new courthouse.

Volcanic Eruption

Garfield - Low
McCone - Low
Richland - Low
Dawson - Not Assessed

Prairie - Low
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Low
Carter - Not Assessed

Participants agreed that risk ratings for a volcanic eruption are appropriate and no changes are required.

Wildfire

Garfield - High
McCone - High
Richland - High
Dawson - High
Prairie - High
Wibaux – Change from Medium to High
Custer - High
Fallon - High
Powder River - High
Carter - High

Participants noted that Wibaux County should be upgraded to high risk for wildfire.

Winterstorms

Garfield - High
McCone - High
Richland - Medium
Dawson – Change Medium to High
Prairie - High
Wibaux – Change from Low to High
Custer – Change Medium to High
Fallon – Change from Medium to High
Powder River - High
Carter – High

Participants noted that Custer and Dawson counties should be upgraded to high risk for winterstorms. It was also noted that Wibaux, Fallon, Carter and Powder River counties should probably all be rated the same for this hazard. Consequently, Fallon and Wibaux counties were upgraded to high risk for winterstorms.

ASSESSMENT OF STATE GOALS – DISTRICT 4

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Goal 2: Increase State's capability to provide mitigation opportunities.

Discussed the modifications suggested at the Billings, MT meeting where the language is changed to “Assist locals with mitigation opportunities”.

Goal 3: Mitigate the potential loss of life and property from flooding.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

It was noted that the primary way to reduce/mitigate fire is to discourage people from moving into the WUI. This becomes a zoning, ordinance issue that is difficult for local governments. Should responsibility be shifted to local homeowners? Responsible growth, not sustainable growth, is the issue in the WUI.

Goal 5: Reduce potential earthquake losses in Western Montana.

Goal 6: Minimize economic impacts of drought.

Goal 7: Reduce impacts from severe winter weather.

District 4 participants felt that the winterstorm hazard should be elevated to a much higher goal priority in the updated State PDM Plan.

Dawson County noted the omission of five winterstorm projects from the mitigation projects report.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

OTHER COMMENTS

Participants suggested that the top three goals be summarized for each county, summarized for each district and added to the State Plan. These summaries will be presented at the April 19th stakeholders meeting. Additionally, the goals of every local plan should be presented by the top three goals.

It was noted that there is no goal or objective in the State Plan and local District 4 plans for wind events. Should there be?

The counties noted that risk is different than priority and felt that the difference should be explained.

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Wednesday, March 28, 2007

Time: 5:14 pm – 5:57 pm

Place: Sidney, Montana

Meeting Attendance:

Rob Gilbert, Jr., Sidney Volunteer Fire Dept. and Richland Co. DES

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

HAZARDS AFFECTING DISTRICT 4

Meeting Discussion on Hazards Affecting District 4

Richland County has seen tremendous population growth with the development of oil wells, new natural gas (propane/butane) plants and new pipelines. There is a lot of new homebuilding going on in Sidney. As construction is not necessarily in or near any CRP lands (which suggests fire danger) or in the floodplain, these hazards are not issues yet. Other issues in Richland County include the railroad transfer plan with propane cars and loading, and increasingly high HAZMAT risk with heavy use of the transportation corridors.

Top hazards for Richland County area as follows: 1. Drought, 2. Wildfire (comes directly from thunderstorms and other severe summer weather) and, 3. Hazardous Material Incidents.

ASSESSMENT OF HAZARDS – DISTRICT 4

Drought

Garfield – Change Not Assessed to High (during Miles City meeting)

McCone - High

Richland - High

Dawson – Change Medium to High (during Miles City meeting)

Prairie - High

Wibaux - High

Custer - Medium

Fallon - Medium

Powder River – Not Assessed

Carter – High

No changes are necessary for Richland County but Mr. Gilbert wondered why Custer, Fallon and Dawson counties are only medium risk for drought. Mr. Gilbert also suggested that drought and wildfire hazards should be joined together in some fashion.

Earthquake

Garfield - Low

McCone - Low

Richland - Low

Dawson – Change Not Assessed to Low (during Miles City meeting)

Prairie - Change Not Assessed to Low (during Miles City meeting)

Wibaux - Change Not Assessed to Low (during Miles City meeting)

Custer - Change Not Assessed to Low (during Miles City meeting)

Fallon - Change Not Assessed to Low (during Miles City meeting)

Powder River - Low

Carter – Low

Mr. Gilbert felt that a low risk rating for earthquakes was still appropriate for Richland County.

Flood

Garfield – Change High to Low (during Miles City meeting)

McCone - High

Richland - Medium

Dawson - High

Prairie - Medium

Wibaux - High

Custer – Change Medium to High (during Miles City meeting)

Fallon - Medium

Powder River - High

Carter – Low

As Richland County has mostly lowland riverine and creek type flooding, a medium risk rating is correct for this hazard.

Hazardous Material Incident

Garfield - Medium

McCone - Medium

Richland – Change Medium to High

Dawson – Change Low to High (during Miles City meeting)

Prairie – Change Low to High (during Miles City meeting)

Wibaux – Change Medium to High (during Miles City meeting)

Custer - Low

Fallon - High

Powder River - High

Carter – Change Low to High (during Miles City meeting)

Richland County is now the highest oil producing county in the state and the risk for a hazardous material incident should be upgraded to high. There is increased oil production and heavy truck traffic moving along county transportation corridors. The

County is concerned about trucks carrying materials that are not marked for security reasons.

Landslide

Garfield – Not Assessed
McCone – Not Assessed
Richland – Change Medium to Low
Dawson - Not Assessed
Prairie - Not Assessed
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Not Assessed
Carter – Low

Richland County did not see a reason for a medium risk rating for landslides and requested a change to low risk.

Severe Thunderstorms, Hail, Wind and Tornadoes

Garfield - High
McCone - High
Richland - Medium
Dawson – Change Low to High (during Miles City meeting)
Prairie - Medium
Wibaux - Low
Custer - Medium
Fallon - Low
Powder River - High
Carter – High

Mr. Gilbert felt the medium risk rating for severe summer weather is correct.

Terrorism and Violence

Garfield - Low
McCone – Not Assessed
Richland – Change Not Assessed to Low
Dawson - Not Assessed
Prairie – Change from Not Assessed to Low (during Miles City meeting)
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Low
Carter – Low

Richland County requested that their risk rating for Terrorism and Violence be upgraded to low to reflect increased petroleum infrastructure.

Volcanic Eruption

Garfield - Low
McCone - Low
Richland - Low
Dawson - Not Assessed
Prairie - Low
Wibaux - Not Assessed
Custer - Not Assessed
Fallon - Not Assessed
Powder River - Low
Carter - Not Assessed

No changes were deemed necessary.

Wildfire

Garfield - High
McCone - High
Richland - High
Dawson - High
Prairie - High
Wibaux – Change from Medium to High (during Miles City meeting)
Custer - High
Fallon - High
Powder River - High
Carter – High

Mr. Gilbert observed that Wibaux County should probably be upgraded from medium to high risk for wildfire hazard.

Winterstorms

Garfield - High
McCone - High
Richland – Change Medium to High
Dawson – Change Medium to High (during Miles City meeting)
Prairie - High
Wibaux – Change from Low to High (during Miles City meeting)
Custer – Change Medium to High (during Miles City meeting)
Fallon – Change from Medium to High (during Miles City meeting)
Powder River - High
Carter – High

Richland County noted that the last bad storm was in 1988 and since then, winterstorms have not been much of a threat. However, Richland County noted that if Dawson County upgrades to high risk, they would also upgrade to high risk. Mr. Gilbert requested that a draft be sent to Richland County LEPC to review in May.

ASSESSMENT OF STATE GOALS – DISTRICT 4

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Goal 2: Increase State's capability to provide mitigation opportunities.

Goal 3: Mitigate the potential loss of life and property from flooding.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

Serious fire risk is present in the Elk Island (near Savage) and Seven Sisters Island (near Crane) areas and a fuels reduction project is needed in these areas.

Goal 5: Reduce potential earthquake losses in Western Montana.

Goal 6: Minimize economic impacts of drought.

Goal 7: Reduce impacts from severe winter weather.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

OTHER COMMENTS

Richland County felt that the current state goals seem okay as written. However, drought should have a higher priority than flooding and earthquakes.

Mr. Gilbert will take the Goals, Objectives and project lists to the Richland County LEPC for further discussion and review.

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

On-Line Survey Results

What jurisdiction type do you represent?			
		Response Percent	Response Count
Federal	<div><div></div></div>	3.2%	1
State	<div><div></div></div>	3.2%	1
County	<div><div></div></div>	41.9%	13
Tribal		0.0%	0
Public Utility	<div><div></div></div>	3.2%	1
General Public	<div><div></div></div>	6.5%	2
Other (please specify)	<div><div></div></div>	41.9%	13
		answered question	31
		skipped question	0

What County/Tribal Community do you represent or as a private citizen where do you live?			
		Response Percent	Response Count
Blackfeet		0.0%	0
Crow		0.0%	0
Flathead		0.0%	0
Fort Belknap		0.0%	0
Fort Peck		0.0%	0
Northern Cheyenne		0.0%	0
Rocky Boy's		0.0%	0
Beaverhead		0.0%	0
Big Horn		0.0%	0
Blaine		0.0%	0
Broadwater		0.0%	0
Carbon		0.0%	0
Carter	<div><div></div></div>	3.2%	1
Cascade		0.0%	0
Chouteau		0.0%	0

State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment

Custer	<div><div></div></div>	12.9%	4
Daniels		0.0%	0
Dawson	<div><div></div></div>	61.3%	19
Deer Lodge		0.0%	0
Fallon	<div><div></div></div>	3.2%	1
Fergus		0.0%	0
Flathead		0.0%	0
Gallatin		0.0%	0
Garfield	<div><div></div></div>	3.2%	1
Glacier		0.0%	0
Golden Valley		0.0%	0
Granite		0.0%	0
Hill		0.0%	0
Jefferson		0.0%	0
Judith Basin		0.0%	0
Lake		0.0%	0
Lewis And Clark		0.0%	0
Liberty		0.0%	0
Lincoln		0.0%	0
Madison		0.0%	0
McCone	<div><div></div></div>	3.2%	1
Meagher		0.0%	0
Mineral		0.0%	0
Missoula		0.0%	0
Musselshell		0.0%	0
Park		0.0%	0
Petroleum		0.0%	0
Phillips		0.0%	0
Pondera		0.0%	0
Powder River		0.0%	0
Powell		0.0%	0

Prairie		0.0%	0
Ravalli		0.0%	0
Richland	<div></div>	9.7%	3
Roosevelt		0.0%	0
Rosebud		0.0%	0
Sanders		0.0%	0
Sheridan		0.0%	0
Silver Bow		0.0%	0
Stillwater		0.0%	0
Sweet Grass		0.0%	0
Teton		0.0%	0
Toole		0.0%	0
Treasure		0.0%	0
Valley		0.0%	0
Wheatland		0.0%	0
Wibaux	<div></div>	3.2%	1
Yellowstone		0.0%	0
Other		0.0%	0
	answered question		31
	skipped question		0

Have you seen or read the State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment.			
		Response Percent	Response Count
Yes	<div></div>	25.8%	8
No	<div></div>	74.2%	23
	answered question		31
	skipped question		0

How would you rate the overall quality and content of the plan.			
		Response Percent	Response Count
1 - Poor		0.0%	0
2		0.0%	0
3 - Average	<div></div>	28.6%	2
4	<div></div>	71.4%	5
5 - Excellent		0.0%	0
	answered question		7
	skipped question		24

Do you feel the plan accurately portrays natural and man-made hazards in Montana?			
		Response Percent	Response Count
Yes	<div></div>	100.0%	7
No		0.0%	0
	answered question		7
	skipped question		24

What improvements do you think could be made to the plan?		
		Response Count
		4
	answered question	4
	skipped question	27

From the perspective of the jurisdiction that you represent or permanently reside in, how do you perceive the risk to each of the following hazards: Risk is defined as the potential to affect people, environment, economy and property of your jurisdiction. High/Medium/Low for:					
	High	Medium	Low	Rating Average	Response Count
Communicable Disease	4.2% (1)	70.8% (17)	25.0% (6)	2.21	24
Drought	70.8% (17)	16.7% (4)	12.5% (3)	1.42	24
Earthquake	4.2% (1)	4.2% (1)	91.7% (22)	2.88	24
Flooding/Dam Failure	33.3% (8)	29.2% (7)	37.5% (9)	2.04	24
Hazardous Material Incidents	33.3% (8)	54.2% (13)	12.5% (3)	1.79	24
Landslide	0.0% (0)	20.8% (5)	79.2% (19)	2.79	24
Terrorism/Violence	4.2% (1)	8.3% (2)	87.5% (21)	2.83	24
Thunderstorm Wind, Hail, and Tornadoes	70.8% (17)	25.0% (6)	4.2% (1)	1.33	24
Volcanic Eruption	0.0% (0)	4.2% (1)	95.8% (23)	2.96	24
Wildfire	54.2% (13)	29.2% (7)	16.7% (4)	1.63	24
Winter Storms/Avalanche	54.2% (13)	37.5% (9)	8.3% (2)	1.54	24
	answered question				24
	skipped question				7

Please comment on the impact that future development will have on the hazards listed from the perspective of your jurisdiction.			
		Response Percent	Response Count
Communicable Disease	<div></div>	85.7%	12
Drought	<div></div>	71.4%	10
Earthquake	<div></div>	50.0%	7
Flooding/Dam Failure	<div></div>	85.7%	12
Hazardous Material Incidents	<div></div>	71.4%	10
Landslide	<div></div>	50.0%	7
Terrorism/Violence	<div></div>	57.1%	8
Thunderstorm Wind, Hail, and Tornadoes	<div></div>	71.4%	10
Volcanic Eruption	<div></div>	42.9%	6
Wildfire	<div></div>	78.6%	11
Winter Storms/Avalanche	<div></div>	71.4%	10
	answered question		14
	skipped question		17

Please prioritize the following proposed NEW goals for the State Plan Update by order of importance from the perspective of your jurisdiction (1=highest / 10=lowest):											
	High				Medium					Low	Rating Average
Maximize the Use of Mitigation Actions that Prevent Losses from All Hazards	25.0% (5)	15.0% (3)	10.0% (2)	10.0% (2)	20.0% (4)	5.0% (1)	5.0% (1)	10.0% (2)	0.0% (0)	0.0% (0)	3.70
Increase State’s Capability to Provide and Assist Locals with Mitigation Opportunities	28.6% (6)	19.0% (4)	19.0% (4)	4.8% (1)	19.0% (4)	9.5% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.95
Reduce the Community Impacts of Wildland and Rangeland Fires	19.0% (4)	19.0% (4)	14.3% (3)	14.3% (3)	23.8% (5)	0.0% (0)	4.8% (1)	0.0% (0)	4.8% (1)	0.0% (0)	3.52
Mitigate the Potential Loss of Life and Property from Flooding (riverine flooding, ice jams, dam failure)	33.3% (7)	14.3% (3)	14.3% (3)	0.0% (0)	19.0% (4)	0.0% (0)	9.5% (2)	4.8% (1)	0.0% (0)	4.8% (1)	3.52
Minimize Economic Impacts of Drought	23.8% (5)	19.0% (4)	14.3% (3)	14.3% (3)	9.5% (2)	4.8% (1)	4.8% (1)	4.8% (1)	4.8% (1)	0.0% (0)	3.52
Reduce Impacts from Severe Summer Weather (thunderstorm wind, hail, tornadoes)	14.3% (3)	23.8% (5)	23.8% (5)	9.5% (2)	23.8% (5)	0.0% (0)	4.8% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.24
Reduce Impacts from Severe Winter Weather (extreme cold, snow, ice)	19.0% (4)	23.8% (5)	23.8% (5)	9.5% (2)	19.0% (4)	4.8% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.00
Reduce Potential Earthquake Losses in Western Montana	5.0% (1)	10.0% (2)	5.0% (1)	0.0% (0)	15.0% (3)	0.0% (0)	5.0% (1)	15.0% (3)	0.0% (0)	45.0% (9)	7.20
Reduce Losses from Hazardous Material Incidents	14.3% (3)	4.8% (1)	38.1% (8)	0.0% (0)	9.5% (2)	9.5% (2)	4.8% (1)	9.5% (2)	9.5% (2)	0.0% (0)	4.38
Encourage Mitigation of Potentially Devastating but Historically Less Frequent Hazards	4.8% (1)	0.0% (0)	28.6% (6)	4.8% (1)	19.0% (4)	4.8% (1)	0.0% (0)	19.0% (4)	19.0% (4)	0.0% (0)	5.57
	answered question										
	skipped question										

Please indicate any additional Goals you think should be added to the State Plan.		
		Response Count
		1
	answered question	1
	skipped question	30

Goal: Maximize the use of mitigation actions that prevent losses from all hazards.											
	High				Medium					Low	Rating Average
Develop GIS databases of hazard risk maps and state buildings and infrastructure to use in mitigation planning	10.5% (2)	21.1% (4)	10.5% (2)	5.3% (1)	31.6% (6)	10.5% (2)	5.3% (1)	5.3% (1)	0.0% (0)	0.0% (0)	4.05
Conduct Level 1 HAZUS-MH analyses for all Montana counties	15.8% (3)	10.5% (2)	15.8% (3)	10.5% (2)	21.1% (4)	10.5% (2)	10.5% (2)	5.3% (1)	0.0% (0)	0.0% (0)	4.11
Improve Statewide HAZUS data	10.5% (2)	21.1% (4)	5.3% (1)	5.3% (1)	31.6% (6)	10.5% (2)	5.3% (1)	10.5% (2)	0.0% (0)	0.0% (0)	4.32
Determine GPS locations of all State buildings for detailed, non-public analysis	5.6% (1)	16.7% (3)	5.6% (1)	5.6% (1)	27.8% (5)	5.6% (1)	11.1% (2)	5.6% (1)	5.6% (1)	11.1% (2)	5.33
Conduct a non-public hazard assessment that utilizes specific State building locations and infrastructure locations to be used for mitigation actions and homeland security purposes	5.3% (1)	15.8% (3)	15.8% (3)	5.3% (1)	26.3% (5)	10.5% (2)	0.0% (0)	10.5% (2)	5.3% (1)	5.3% (1)	4.84
Promote earth science education of hazards in schools	10.5% (2)	5.3% (1)	0.0% (0)	26.3% (5)	21.1% (4)	0.0% (0)	15.8% (3)	5.3% (1)	0.0% (0)	15.8% (3)	5.42
Conduct a Statewide warning capability assessment	21.1% (4)	5.3% (1)	15.8% (3)	21.1% (4)	10.5% (2)	5.3% (1)	10.5% (2)	5.3% (1)	5.3% (1)	0.0% (0)	4.11
Develop a Statewide All-Hazard Emergency Alert System (EAS) plan	16.7% (3)	16.7% (3)	11.1% (2)	16.7% (3)	16.7% (3)	11.1% (2)	5.6% (1)	5.6% (1)	0.0% (0)	0.0% (0)	3.83
Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.	15.8% (3)	15.8% (3)	5.3% (1)	31.6% (6)	5.3% (1)	10.5% (2)	15.8% (3)	0.0% (0)	0.0% (0)	0.0% (0)	3.89
Increase the public awareness of hazards	10.5% (2)	21.1% (4)	15.8% (3)	21.1% (4)	21.1% (4)	0.0% (0)	10.5% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.63
Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is	10.5% (2)	10.5% (2)	31.6% (6)	15.8% (3)	5.3% (1)	5.3% (1)	5.3% (1)	10.5% (2)	0.0% (0)	5.3% (1)	4.21
Increase readiness for the protection of life and property during an event	36.8% (7)	26.3% (5)	10.5% (2)	10.5% (2)	5.3% (1)	5.3% (1)	5.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.58
	answered question										

	<i>skipped question</i>
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Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.										
										Response Count
										2
	<i>answered question</i>									2
	<i>skipped question</i>									29

Goal: Increase State’s capability to provide and assist locals with mitigation opportunities.											
	High				Medium					Low	Rating Average
Continue outreach of mitigation project funding opportunities	26.3% (5)	26.3% (5)	31.6% (6)	0.0% (0)	15.8% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.53
Provide technical assistance with the environmental review process	21.1% (4)	15.8% (3)	15.8% (3)	21.1% (4)	15.8% (3)	5.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	5.3% (1)	3.47
Provide technical assistance for project development	26.3% (5)	15.8% (3)	15.8% (3)	21.1% (4)	21.1% (4)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.95
Create an electronic database of completed mitigation projects in Montana	10.5% (2)	10.5% (2)	10.5% (2)	10.5% (2)	21.1% (4)	0.0% (0)	10.5% (2)	15.8% (3)	0.0% (0)	10.5% (2)	5.16
Increase the scope and participation of the State Hazard Mitigation Team	10.5% (2)	10.5% (2)	15.8% (3)	10.5% (2)	26.3% (5)	0.0% (0)	15.8% (3)	5.3% (1)	0.0% (0)	5.3% (1)	4.58
Create a private advisory group for mitigation	5.3% (1)	5.3% (1)	5.3% (1)	15.8% (3)	21.1% (4)	5.3% (1)	5.3% (1)	15.8% (3)	5.3% (1)	15.8% (3)	6.00
Streamline mitigation standards in state and/or local subdivision regulations	16.7% (3)	11.1% (2)	0.0% (0)	5.6% (1)	38.9% (7)	16.7% (3)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	4.50
Strengthen state and/or local building codes	5.3% (1)	5.3% (1)	5.3% (1)	15.8% (3)	26.3% (5)	21.1% (4)	0.0% (0)	5.3% (1)	5.3% (1)	10.5% (2)	5.47
Require growth policies consider natural and man-made hazard	11.1% (2)	5.6% (1)	11.1% (2)	16.7% (3)	38.9% (7)	5.6% (1)	0.0% (0)	11.1% (2)	0.0% (0)	0.0% (0)	4.39
Create a state funded grant program to assist with the 25% match for local governments	11.1% (2)	22.2% (4)	11.1% (2)	27.8% (5)	16.7% (3)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	0.0% (0)	3.67
Coordinate local plan development	5.6% (1)	27.8% (5)	16.7% (3)	16.7% (3)	22.2% (4)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	0.0% (0)	3.72
Provide technical assistance with											

hazard mapping for rural communities without GIS capabilities	21.1% (4)	5.3% (1)	21.1% (4)	21.1% (4)	26.3% (5)	0.0% (0)	5.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.47
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										31

Goal: Mitigate the potential loss of life and property from flooding.											
	High				Medium					Low	Rating Average
Develop and improve upon model floodplain ordinances for local governments	5.6% (1)	27.8% (5)	16.7% (3)	16.7% (3)	11.1% (2)	0.0% (0)	5.6% (1)	0.0% (0)	11.1% (2)	5.6% (1)	4.28
Develop mapping for unmapped flood prone areas	11.1% (2)	22.2% (4)	22.2% (4)	0.0% (0)	27.8% (5)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	5.6% (1)	4.00
Update floodplain mapping of mapped areas	11.1% (2)	16.7% (3)	27.8% (5)	5.6% (1)	27.8% (5)	0.0% (0)	0.0% (0)	0.0% (0)	5.6% (1)	5.6% (1)	3.94
Establish a schedule for NFIP map reviews and updates	11.1% (2)	16.7% (3)	0.0% (0)	16.7% (3)	33.3% (6)	5.6% (1)	5.6% (1)	5.6% (1)	5.6% (1)	0.0% (0)	4.44
Provide outreach and technical assistance in joining the NFIP Community Rating System for reducing flood insurance premiums	22.2% (4)	22.2% (4)	11.1% (2)	5.6% (1)	16.7% (3)	0.0% (0)	0.0% (0)	5.6% (1)	11.1% (2)	5.6% (1)	4.06
Increase the public awareness of flood mitigation	11.1% (2)	16.7% (3)	16.7% (3)	5.6% (1)	22.2% (4)	11.1% (2)	5.6% (1)	5.6% (1)	5.6% (1)	0.0% (0)	4.28
Reduce the number of current and future structures in the floodplain	16.7% (3)	5.6% (1)	11.1% (2)	11.1% (2)	27.8% (5)	11.1% (2)	0.0% (0)	11.1% (2)	0.0% (0)	5.6% (1)	4.56
Prevent flooding of structures and infrastructure from inadequate storm drainage and poorly designed irrigation waterways	11.1% (2)	16.7% (3)	11.1% (2)	22.2% (4)	16.7% (3)	11.1% (2)	5.6% (1)	5.6% (1)	0.0% (0)	0.0% (0)	4.00
Provide adequate warning of flooding events	22.2% (4)	16.7% (3)	16.7% (3)	16.7% (3)	22.2% (4)	0.0% (0)	5.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.22

	<i>answered question</i>
	<i>skipped question</i>

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.	
	Response Count
	1
	<i>answered question</i> 1
	<i>skipped question</i> 30

Goal: Reduce the community impacts of wildland and rangeland fires.											
	High				Medium					Low	Rating Average
Reduce fuels in the wildland urban interface	16.7% (3)	5.6% (1)	22.2% (4)	11.1% (2)	27.8% (5)	5.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	11.1% (2)	4.22
Reduce hazardous fuels in rangeland areas	17.6% (3)	0.0% (0)	29.4% (5)	11.8% (2)	23.5% (4)	0.0% (0)	5.9% (1)	0.0% (0)	5.9% (1)	5.9% (1)	4.24
Accurately assess and address the current wildland urban interface problems at the subdivision level	16.7% (3)	0.0% (0)	27.8% (5)	22.2% (4)	16.7% (3)	5.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	11.1% (2)	4.17
Enhance firefighting resources and improve firefighting capabilities	33.3% (6)	27.8% (5)	16.7% (3)	11.1% (2)	5.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	5.6% (1)	0.0% (0)	2.61
Enhance community awareness of wildfires through education	16.7% (3)	16.7% (3)	11.1% (2)	27.8% (5)	11.1% (2)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	5.6% (1)	3.89
Enhance effectiveness of response and evacuation	11.8% (2)	35.3% (6)	17.6% (3)	5.9% (1)	5.9% (1)	11.8% (2)	5.9% (1)	0.0% (0)	5.9% (1)	0.0% (0)	3.53
Establish mapping or record keeping practices to support fuel management strategies	5.6% (1)	11.1% (2)	11.1% (2)	16.7% (3)	16.7% (3)	11.1% (2)	5.6% (1)	5.6% (1)	0.0% (0)	16.7% (3)	5.28
Minimize human-caused ignition sources in fire-prone areas	22.2% (4)	11.1% (2)	16.7% (3)	5.6% (1)	27.8% (5)	5.6% (1)	5.6% (1)	0.0% (0)	0.0% (0)	5.6% (1)	3.83
Centralize fire history documentation	5.6% (1)	5.6% (1)	16.7% (3)	11.1% (2)	16.7% (3)	11.1% (2)	11.1% (2)	5.6% (1)	0.0% (0)	16.7% (3)	5.50
Develop a consistent Statewide fire risk assessment system	5.9% (1)	5.9% (1)	23.5% (4)	11.8% (2)	29.4% (5)	5.9% (1)	0.0% (0)	11.8% (2)	0.0% (0)	5.9% (1)	4.71
Encourage sustainable growth in wildland fire hazard areas	5.6% (1)	11.1% (2)	5.6% (1)	16.7% (3)	33.3% (6)	11.1% (2)	0.0% (0)	5.6% (1)	5.6% (1)	5.6% (1)	4.94

	<i>answered question</i>
	<i>skipped question</i>

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		0
	<i>answered question</i>	0
	<i>skipped question</i>	31

Goal: Reduce potential earthquake losses in Western Montana.											
	High				Medium					Low	Rating Average
Goal: Reduce potential earthquake losses in Western Montana.	5.9% (1)	5.9% (1)	5.9% (1)	5.9% (1)	29.4% (5)	23.5% (4)	5.9% (1)	0.0% (0)	0.0% (0)	17.6% (3)	5.65
Provide greater enforcement of current building codes	5.9% (1)	11.8% (2)	5.9% (1)	17.6% (3)	11.8% (2)	5.9% (1)	17.6% (3)	0.0% (0)	0.0% (0)	23.5% (4)	5.71
Develop model seismic building codes	5.9% (1)	5.9% (1)	5.9% (1)	5.9% (1)	29.4% (5)	5.9% (1)	17.6% (3)	5.9% (1)	0.0% (0)	17.6% (3)	5.88
Create stronger building standards for critical facilities and structures housing vulnerable populations	18.8% (3)	6.3% (1)	0.0% (0)	6.3% (1)	31.3% (5)	6.3% (1)	12.5% (2)	0.0% (0)	0.0% (0)	18.8% (3)	5.25
Require earthquake drills in schools in Western Montana	12.5% (2)	0.0% (0)	6.3% (1)	12.5% (2)	31.3% (5)	6.3% (1)	12.5% (2)	0.0% (0)	0.0% (0)	18.8% (3)	5.50
Expand and upgrade earthquake monitoring network and reporting capabilities	18.8% (3)	0.0% (0)	6.3% (1)	0.0% (0)	12.5% (2)	18.8% (3)	18.8% (3)	0.0% (0)	0.0% (0)	25.0% (4)	5.94
Continue “Earthquake Preparedness Month” outreach activities during the month of October	12.5% (2)	6.3% (1)	12.5% (2)	0.0% (0)	18.8% (3)	6.3% (1)	12.5% (2)	0.0% (0)	6.3% (1)	25.0% (4)	5.88
Implement non-structural mitigation projects to harden State and community infrastructure from seismic hazards	12.5% (2)	6.3% (1)	6.3% (1)	0.0% (0)	25.0% (4)	6.3% (1)	18.8% (3)	0.0% (0)	0.0% (0)	25.0% (4)	5.88
Seismically retrofit existing critical facilities and government assets	6.7% (1)	6.7% (1)	13.3% (2)	0.0% (0)	26.7% (4)	6.7% (1)	20.0% (3)	0.0% (0)	0.0% (0)	20.0% (3)	5.73
	<i>answered question</i>										

	<i>skipped question</i>
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Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	<i>answered question</i>	1
	<i>skipped question</i>	30

Goal: Minimize economic impacts of drought.											
	High				Medium					Low	Rating Average
Develop a system for distributing information on current conditions	18.8% (3)	12.5% (2)	6.3% (1)	12.5% (2)	25.0% (4)	6.3% (1)	6.3% (1)	6.3% (1)	0.0% (0)	6.3% (1)	4.31
Continue to support the State Drought Advisory Committee	18.8% (3)	12.5% (2)	18.8% (3)	0.0% (0)	25.0% (4)	0.0% (0)	12.5% (2)	6.3% (1)	0.0% (0)	6.3% (1)	4.25
Install Statewide drought monitoring stations	12.5% (2)	12.5% (2)	0.0% (0)	18.8% (3)	31.3% (5)	12.5% (2)	0.0% (0)	6.3% (1)	0.0% (0)	6.3% (1)	4.56
Use long-term groundwater monitoring to assess drought conditions	12.5% (2)	18.8% (3)	12.5% (2)	12.5% (2)	25.0% (4)	0.0% (0)	6.3% (1)	6.3% (1)	0.0% (0)	6.3% (1)	4.19
Educate farmers and ranchers in fiscally preventing drought losses	25.0% (4)	18.8% (3)	6.3% (1)	6.3% (1)	18.8% (3)	6.3% (1)	6.3% (1)	6.3% (1)	0.0% (0)	6.3% (1)	3.94
Educate farmers and ranchers in reducing physical losses during dry seasons	18.8% (3)	25.0% (4)	6.3% (1)	12.5% (2)	12.5% (2)	6.3% (1)	6.3% (1)	6.3% (1)	0.0% (0)	6.3% (1)	3.94
Identify water retention projects that could lessen the effects of drought	18.8% (3)	18.8% (3)	25.0% (4)	6.3% (1)	18.8% (3)	0.0% (0)	6.3% (1)	6.3% (1)	0.0% (0)	0.0% (0)	3.44
	<i>answered question</i>										
	<i>skipped question</i>										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										31

Goal: Reduce impacts from severe winter weather.												
	High				Medium					Low	Rating Average	
Distribute winter driving and survival tips	25.0% (4)	12.5% (2)	6.3% (1)	12.5% (2)	31.3% (5)	6.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	6.3% (1)	3.75	
Increase public awareness of winter weather hazards	25.0% (4)	12.5% (2)	12.5% (2)	25.0% (4)	18.8% (3)	6.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.19	
Create partnerships with utility companies and negotiate for shorten span distances between power poles to better withstand snow loads and severe storms	25.0% (4)	12.5% (2)	25.0% (4)	12.5% (2)	12.5% (2)	0.0% (0)	12.5% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.25	
Improve communication between emergency response personnel and road departments to facilitate coordination during extreme weather	37.5% (6)	25.0% (4)	25.0% (4)	0.0% (0)	6.3% (1)	6.3% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.31	
Structurally analyze all buildings or rooms identified as shelters and strengthen these as necessary	12.5% (2)	18.8% (3)	12.5% (2)	18.8% (3)	18.8% (3)	6.3% (1)	12.5% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.81	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											0
	answered question										0
	skipped question										31

Goal: Reduce impacts from Severe Summer Weather (thunderstorms, wind, hail, tornadoes)											
	High				Medium					Low	Rating Average
Install safety film on critical facilities to prevent shattering glass.	12.5% (2)	18.8% (3)	6.3% (1)	12.5% (2)	25.0% (4)	0.0% (0)	12.5% (2)	0.0% (0)	0.0% (0)	12.5% (2)	4.56
Encourage development and enforcement of wind resistant buildings and construction codes	6.3% (1)	12.5% (2)	18.8% (3)	12.5% (2)	25.0% (4)	0.0% (0)	18.8% (3)	0.0% (0)	0.0% (0)	6.3% (1)	4.56
Develop and implement programs to keep trees from threatening lives, property and public infrastructure during windstorm events	18.8% (3)	12.5% (2)	18.8% (3)	12.5% (2)	12.5% (2)	6.3% (1)	18.8% (3)	0.0% (0)	0.0% (0)	0.0% (0)	3.81
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	30

Goal: Reduce losses from Hazardous Material Incidents												
	High				Medium					Low	Rating Average	R
Develop communication plan for hazardous material emergencies	26.7% (4)	13.3% (2)	26.7% (4)	13.3% (2)	20.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.87	
Enhance information capability on types of hazardous materials traveling transportation routes	20.0% (3)	40.0% (6)	6.7% (1)	6.7% (1)	20.0% (3)	6.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.87	
Provide hazardous material training to emergency responders	40.0% (6)	20.0% (3)	20.0% (3)	13.3% (2)	0.0% (0)	0.0% (0)	6.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.40	
Develop evacuation procedures for homes near transportation networks that commonly carry hazardous materials	26.7% (4)	26.7% (4)	13.3% (2)	13.3% (2)	20.0% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.73	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	30

Goal: Encourage mitigation of potentially devastating but historically less frequent hazards.											
	High				Medium					Low	Rating Average
Identify and map areas of greatest landslide and avalanche potential	6.3% (1)	6.3% (1)	6.3% (1)	12.5% (2)	18.8% (3)	6.3% (1)	0.0% (0)	12.5% (2)	0.0% (0)	31.3% (5)	6.31
Create a landslide/avalanche technical committee	6.3% (1)	0.0% (0)	6.3% (1)	12.5% (2)	12.5% (2)	6.3% (1)	6.3% (1)	12.5% (2)	0.0% (0)	37.5% (6)	6.94
Support the mitigation related goals, objectives, and actions of the Montana Homeland Security Strategic Plan	25.0% (4)	6.3% (1)	0.0% (0)	6.3% (1)	6.3% (1)	12.5% (2)	6.3% (1)	6.3% (1)	0.0% (0)	31.3% (5)	5.75
Reduce losses from communicable disease	18.8% (3)	18.8% (3)	25.0% (4)	12.5% (2)	12.5% (2)	0.0% (0)	0.0% (0)	0.0% (0)	6.3% (1)	6.3% (1)	3.63
Increase awareness of risks from communicable disease	25.0% (4)	6.3% (1)	25.0% (4)	12.5% (2)	18.8% (3)	0.0% (0)	0.0% (0)	0.0% (0)	6.3% (1)	6.3% (1)	3.75
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		0
	answered question	0
	skipped question	31

Please indicate how long it took you to complete the survey.			
		Response Percent	Response Count
5 minutes		0.0%	0
10 minutes	<div></div>	12.5%	2
15 minutes	<div></div>	56.3%	9
20 minutes	<div></div>	12.5%	2
30 minutes	<div></div>	18.8%	3
Greater than 30 minutes		0.0%	0
	answered question		16
	skipped question		15

District 4 On-Line Survey - Other Jurisdictions Completing Plan

[close window](#)















Displaying 1 - 13 of 13 responses

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Comment Text		Response Date
 Find	1. GLENDIVE MEDICAL CENTER	Fri, 6/1/07 10:27 AM
 Find	2. City fire and EMS	Tue, 5/29/07 7:10 AM
 Find	3. City fire and EMS	Tue, 5/29/07 7:08 AM
 Find	4. Oil Field / Amateur Radio	Tue, 5/29/07 6:38 AM
 Find	5. City of GLendive council president	Sun, 5/27/07 5:42 PM
 Find	6. City	Fri, 5/25/07 10:39 AM
 Find	7. industry	Fri, 5/25/07 8:59 AM
 Find	8. private industry	Thu, 5/24/07 8:16 AM
 Find	9. BNSF Railway	Thu, 5/24/07 5:57 AM
 Find	10. City	Wed, 5/23/07 5:01 PM
 Find	11. non profit electric coop	Wed, 5/23/07 2:27 PM
 Find	12. City limits of Glendive	Wed, 5/23/07 2:08 PM
 Find	13. Private hospital	Wed, 5/23/07 1:57 PM
		50 responses per page 

District 4 On-Line Survey - Suggested Improvements to Plan

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Displaying 1 - 4 of 4 responses

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Comment Text		Response Date
 Find	1. Continue to work with local jurisdictions while updating the plan	Thu, 5/24/07 4:38 PM
 Find	2. Personally, I feel that lack of adequate all season roads in my county is a hazard. Not only does it cause accidents, but prohibits response in some cases. I feel this is a need in this community.	Thu, 5/24/07 9:03 AM
 Find	3. Attended the meeting in Custer County and appreciated the effort to update, confirm and ammend our plan	Thu, 5/24/07 7:03 AM
 Find	4. At this time I don't know of any improvements but if I come up with any I'll let our local DES know.	Wed, 5/23/07 2:27 PM
		10 responses per page 

District 4 On-Line Survey - New Goals

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Comment Text		Response Date
 Find	1. The implementation of a qualified communication manager	Tue, 5/29/07 6:45 AM
		10 responses per page 

District 4 On-Line Survey - Other Goal 1 Mitigation Projects

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Displaying 1 - 2 of 2 responses

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Comment Text		Response Date
 Find	1. In Garfield Co. it would be virtually impossible to enable every citizen to receive warning information. All communications except land line is hit and miss at best.	Tue, 6/19/07 1:27 PM
 Find	2. promote better communication with e-911 statewide and other communication efforts.	Thu, 5/24/07 9:55 AM
		10 responses per page 

District 4 On-Line Survey - Other Flood Mitigation Projects

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Displaying 1 - 1 of 1 responses

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Jump To: 1

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Comment Text		Response Date
 Find	1. Provide flood analysis of existing dikes & levees State to provide matching funds for federal projects to mitigate existing deficiencies	Wed, 5/23/07 2:47 PM
		10 responses per page 

District 4 On-Line Survey - Other Hazardous Material Mitigation Projects

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Comment Text		Response Date
 Find	1. Establish more haz-mat teams throughout the state Provide minimal haz-mat equipment and training for the equipment to rural communities that have a threat.	Wed, 5/23/07 3:07 PM
		10 responses per page 

District 4 On-Line Survey - Other Severe Summer Storm Mitigation Projects

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Displaying 1 - 1 of 1 responses

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Comment Text		Response Date
 Find	1. State provide funding to improve public notification systems of impending storms.	Wed, 5/23/07 3:07 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Communicable Disease Hazard

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Comment Text		Response Date
 Find	1. more people more risk	Mon, 7/2/07 4:52 PM
 Find	2. Future development in Garfield Co. has been in the past and continues to be at a standstill.	Tue, 6/19/07 1:20 PM
 Find	3. minor	Tue, 6/5/07 10:25 AM
 Find	4. Devastating	Tue, 5/29/07 6:43 AM
 Find	5. some	Sun, 5/27/07 5:49 PM
 Find	6. Small Community, Easier to contain	Fri, 5/25/07 8:38 AM
 Find	7. increase	Thu, 5/24/07 9:48 AM
 Find	8. could likely happen and could effect our community	Thu, 5/24/07 8:01 AM
 Find	9. Increase hazard	Thu, 5/24/07 7:24 AM
 Find	10. Higher Impact	Thu, 5/24/07 6:21 AM
 Find	11. If the population of Glendive were to grow, which would mean more people this may increase	Wed, 5/23/07 2:18 PM
 Find	12. hospital will be one of the first places that victims will seek help. The potential for facility and staff contamination is very great.	Wed, 5/23/07 2:04 PM
		25 responses per page 

District 4 On-Line Survey-Impact of Future Development on Drought Hazard

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




Displaying 1 - 10 of 10 responses

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Comment Text		Response Date
 Find	1. more man caused fire	Mon, 7/2/07 4:52 PM
 Find	2. N/A	Tue, 6/5/07 10:25 AM
 Find	3. Serious	Tue, 5/29/07 6:43 AM
 Find	4. WEare in asemiared area	Sun, 5/27/07 5:49 PM
 Find	5. increase water demand	Fri, 5/25/07 10:44 AM
 Find	6. Water has always been a concern	Fri, 5/25/07 8:38 AM
 Find	7. we have been in a semi drought, the impact is more financial and inconvenience than hazardous	Thu, 5/24/07 8:01 AM
 Find	8. Increase hazard	Thu, 5/24/07 7:24 AM
 Find	9. Minor Impact	Thu, 5/24/07 6:21 AM
 Find	10. An increase in the amount of industry or population would strain even more the water resources available	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Earthquake Hazard

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Comment Text		Response Date
 Find	1. N/A	Tue, 6/5/07 10:25 AM
 Find	2. None	Tue, 5/29/07 6:43 AM
 Find	3. not to likly	Sun, 5/27/07 5:49 PM
 Find	4. Not Likely	Fri, 5/25/07 8:38 AM
 Find	5. not likely	Thu, 5/24/07 8:01 AM
 Find	6. No Impact	Thu, 5/24/07 6:21 AM
 Find	7. not a factor	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Flooding Hazard

[close window](#)














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Comment Text		Response Date
 Find	1. higher population more difficult to evac	Mon, 7/2/07 4:52 PM
 Find	2. unknown	Tue, 6/5/07 10:25 AM
 Find	3. None	Tue, 5/29/07 6:43 AM
 Find	4. yellowstone ice jams	Sun, 5/27/07 5:49 PM
 Find	5. limiting development	Fri, 5/25/07 10:44 AM
 Find	6. Yellowstone river passes through town, Part of which is in the flood plain	Fri, 5/25/07 8:38 AM
 Find	7. Newcomers will need to learn where rivers/streams have flooded in the past	Thu, 5/24/07 4:40 PM
 Find	8. increase	Thu, 5/24/07 9:48 AM
 Find	9. Our community is split by the Yellowstone river flooding could be devastating to us	Thu, 5/24/07 8:01 AM
 Find	10. minor impact	Thu, 5/24/07 6:21 AM
 Find	11. If more bridges are installed across the Yellowstone river it would increase the existing problem we have with ice jams/flooding from the river	Wed, 5/23/07 2:18 PM
 Find	12. Miles City sits on confluence of Tongue river which has potential for flooding and or dam failure. History has shown the Yellowstone to flood during ice off.	Wed, 5/23/07 2:04 PM
		25 responses per page 

District 4 On-Line Survey-Impact of Future Development on Hazardous Material Incidents

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Comment Text		Response Date
 Find	1. higher population more difficult to evac	Mon, 7/2/07 4:52 PM
 Find	2. with continued oil activity the risk will increase	Tue, 6/5/07 10:25 AM
 Find	3. Enforcement agencies not trained, first responders not prepared	Tue, 5/29/07 6:43 AM
 Find	4. trains trucks spillage	Sun, 5/27/07 5:49 PM
 Find	5. increase hazard	Fri, 5/25/07 10:44 AM
 Find	6. Railroad runs through center of town, Interstate on the outskirts.	Fri, 5/25/07 8:38 AM
 Find	7. increase	Thu, 5/24/07 9:48 AM
 Find	8. I-94 and BNSF Railroad both pass thru our community, a hazardous materials release is very possible and could likely effect the entire population of our town	Thu, 5/24/07 8:01 AM
 Find	9. Higher ImpaCT	Thu, 5/24/07 6:21 AM
 Find	10. With a major BNSF rail facility and I-94 going through the city we already have a large risk from hazardous materials incidents	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Landslide Hazard

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Comment Text		Response Date
 Find	1. N/A	Tue, 6/5/07 10:25 AM
 Find	2. None	Tue, 5/29/07 6:43 AM
 Find	3. large heave rain	Sun, 5/27/07 5:49 PM
 Find	4. minimal amount of property would be affected	Fri, 5/25/07 8:38 AM
 Find	5. not likely	Thu, 5/24/07 8:01 AM
 Find	6. No Impact	Thu, 5/24/07 6:21 AM
 Find	7. If future development were to extend even further into the adjoining badlands the potential for landslide into the built-up areas would be increased	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Severe Summer Weather Hazards

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

Displaying 1 - 10 of 10 responses

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Comment Text		Response Date
 Find	1. more population harder to help when needed	Mon, 7/2/07 4:52 PM
 Find	2. N/A	Tue, 6/5/07 10:25 AM
 Find	3. Not taken seriously	Tue, 5/29/07 6:43 AM
 Find	4. not being prepaired	Sun, 5/27/07 5:49 PM
 Find	5. increase hazard	Fri, 5/25/07 10:44 AM
 Find	6. So far we have been lucky. Some day wer are going to be hit by "The big one"	Fri, 5/25/07 8:38 AM
 Find	7. could very well happen	Thu, 5/24/07 8:01 AM
 Find	8. Minor Impact	Thu, 5/24/07 6:21 AM
 Find	9. Future development would increase the property/life loss during one of these events	Wed, 5/23/07 2:18 PM
 Find	10. Historical data supports destructive storms in the summer.	Wed, 5/23/07 2:04 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Terrorism Hazard

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Comment Text		Response Date
 Find	1. minor	Tue, 6/5/07 10:25 AM
 Find	2. Lack of training	Tue, 5/29/07 6:43 AM
 Find	3. need better communications	Sun, 5/27/07 5:49 PM
 Find	4. Always possible, even in a small town.	Fri, 5/25/07 8:38 AM
 Find	5. increase	Thu, 5/24/07 9:48 AM
 Find	6. Rail Road and a pipeline gasoline terminal so the threat is possible	Thu, 5/24/07 8:01 AM
 Find	7. No Impact	Thu, 5/24/07 6:21 AM
 Find	8. Depending on the type of future development would this item increase	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Hazard-Impact of Future Development on Volcanic Eruption Hazard

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Comment Text		Response Date
 Find	1. N/A	Tue, 6/5/07 10:25 AM
 Find	2. None	Tue, 5/29/07 6:43 AM
 Find	3. Not Likely	Fri, 5/25/07 8:38 AM
 Find	4. not likely	Thu, 5/24/07 8:01 AM
 Find	5. No Impact	Thu, 5/24/07 6:21 AM
 Find	6. not a factor	Wed, 5/23/07 2:18 PM
		10 responses per page 

District 4 On-Line Survey-Impact of Future Development on Wildfire Hazard

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Comment Text		Response Date
 Find	1. harder to evac	Mon, 7/2/07 4:52 PM
 Find	2. More activity - the greater risk	Tue, 6/5/07 10:25 AM
 Find	3. Not enough equipment	Tue, 5/29/07 6:43 AM
 Find	4. need more and newer equipment	Sun, 5/27/07 5:49 PM
 Find	5. increase hazard	Fri, 5/25/07 10:44 AM
 Find	6. Always possible with carelessness and the wind we have	Fri, 5/25/07 8:38 AM
 Find	7. Newcomers will need to learn how to protect their lives and homes until the fire department arrives	Thu, 5/24/07 4:40 PM
 Find	8. increase	Thu, 5/24/07 9:48 AM
 Find	9. Very likely to happen but the impact would not be that tramatic	Thu, 5/24/07 8:01 AM
 Find	10. No Impact	Thu, 5/24/07 6:21 AM
 Find	11. Future development would increase the urban-wildland interface problem	Wed, 5/23/07 2:18 PM
		25 responses per page 

District 4 On-Line Survey-Impact of Future Development on Severe Winter Weather Hazard

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Comment Text		Response Date
 Find	1. harder to check on all population	Mon, 7/2/07 4:52 PM
 Find	2. N/A	Tue, 6/5/07 10:25 AM
 Find	3. Not properly prepared	Tue, 5/29/07 6:43 AM
 Find	4. better communications	Sun, 5/27/07 5:49 PM
 Find	5. increase hazard potential	Fri, 5/25/07 10:44 AM
 Find	6. We have had bitter winters before, they will come again	Fri, 5/25/07 8:38 AM
 Find	7. increase impact	Thu, 5/24/07 9:48 AM
 Find	8. very likely, nneed to be prepared	Thu, 5/24/07 8:01 AM
 Find	9. No Impact	Thu, 5/24/07 6:21 AM
 Find	10. Future development would effect more people than it alrady does	Wed, 5/23/07 2:18 PM
		10 responses per page 

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MITIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Mitigation Projects

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.1 - Increase readiness for the protection of life and property during an event.

Carter County

High Priority

- Obtain 2 way radios for emergency personnel.
- Provide weather radios.
- Work with Mid Rivers to add cell towers within the County.
- Improve weather radio reception by installing booster repeaters.

Custer County

High Priority

- Install operating stations including computers, telephones, radio, and Internet or LAN, for all response agencies.
- Review existing mutual aid agreements ensure they meet current requirements.
- Execute new mutual aid agreements as needed.
- Offer training in county and/or the opportunity for city and county staff, emergency responders, and elected officials to attend initial and refresher training on preparing damage assessments.
- Inventory all communications systems in the county to determine coverage and/or dead spots.
- Update Emergency Operations Center telephone, cellular phone, and radio systems.
- Actively work with state and federal legislators to develop support for funding identified disaster services needs.
- Compile and maintain a list of Search and Rescue resources available in the county.

Fallon County

High Priority

- Establish back-up Emergency Operations Center in Plevna.

Garfield County

High Priority

- Purchase, install and train users on the operation of NOAA Weather radios.
- Cover windows in critical and special needs facilities with a safety film that prevents the shattering of glass during high winds, tornadoes, earthquakes and other events.

Medium Priority

- Construct a community shelter.
- Explore the best alternative for heating and powering the county courthouse and health center during a power outage.

McCone County

High Priority

- Work to expand acquisition and use of NOAA weather radios, focusing first on critical facilities and vulnerable populations.
- Use NOAA radio system for emergency disaster announcements of any type.

Powder River County

Medium Priority

- Construct a community shelter in Broadus equipped with a generator. Test the facility with drills and disaster exercises.

Prairie County

High Priority

- Develop EOC/Disaster Shelter at the new fire facility in Terry with its own water supply and back-up power.

Medium Priority

- Develop and practice evacuation plans. (Note that the Red Cross has evacuation facilities in Miles City and Glendive if Terry had to be evacuated.)
- Consider the continuity of important records and assess need to address problems associated with interruption of access to records.
- Conduct training exercises.
- Work with critical facilities and public building occupants to ensure each has working NOAA weather radios.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.1 - Increase readiness for the protection of life and property during an event.

Prairie County

Medium Priority

- Inventory various equipment needed for emergencies- e.g., back-up generators, etc.

Richland County

High Priority

- Ensure that there is adequate power and back-up in the towns of Sidney and Fairview.
- Identify and develop a location that could be used as an Emergency Operations Center in Fairview.
- Ensure that critical facilities have operating weather radios.

Medium Priority

- Expand use of weather radios by the general public.
- Ensure that Fairview has a sustainable water supply by fencing the town's water supply tank.

OBJECTIVE 1.2 - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

Custer County

High Priority

- Complete the coverage of the Miles City area with warning sirens.

Garfield County

Medium Priority

- Explore the integration and purchase a reverse 911 system.

Prairie County

High Priority

- Upgrade the siren system and test on a regular basis. Implement local warning plan for an updated siren system.
- Enhance/develop warning response systems.

Richland County

High Priority

- Assess back-up power for communication facilities to ensure that warning systems and communications work during power outages.
- Provide information on warning systems- what they mean and what to do.

OBJECTIVE 1.3 - Increase the public awareness of hazards.

McCone County

High Priority

- Provide public education on need for and how to use weather radios.
- Develop mechanisms to inform new residents of disaster response systems.
- Provide public education on how to prepare for various types of disasters.

Medium Priority

- Consider county website to disseminate emergency/disaster information.

Prairie County

High Priority

- Provide and distribute public education on various disasters, how to prepare and respond.

Richland County

High Priority

- Educate the public on how to get information during a disaster.

Medium Priority

- Provide information on various types of disasters and how to prepare for them.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.4 - Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.

Custer County

High Priority

- Develop and implement actions to address the communications problems identified in the plan.
- Prepare a plan for, or address in the Emergency Operations Plan, continuity of government during flood, drought, severe winter weather, wind/hail and lightning events, and train derailments.

Prairie County

Medium Priority

- Assess emergency telecommunications capabilities- cell phones and 2-way radio coverage.
- Conduct table-top and field test exercises for various disaster scenarios.
- Improve the ability to respond to disasters of all types by sharing issues with other counties in Montana.

Richland County

High Priority

- Identify and implement the best mechanisms to reduce impacts to high-risk populations when they are stranded in their homes or when they are without power critical for health maintenance.

GOAL 2 - Increase State's capability to provide and assist locals with mitigation opportunities.

OBJECTIVE 2.2 - Promote mitigation through supportive legislation and funding.

Garfield County

High Priority

- Adopt a growth policy that addresses hazards and encourages growth in low hazard areas.

Medium Priority

- Require subdivisions meet minimum requirements to improve their disaster resistance.

Powder River County

High Priority

- Revise the county growth policy to address other hazards besides wildfire and encourage growth in low hazard areas. Gather input and support the needs of first responders and emergency service providers.
- Develop subdivision regulations that require developments to meet minimum standards to improve their disaster resistance to a multitude of hazards.

Prairie County

Medium Priority

- Encourage County Commissioners to add disaster mitigation/preparedness issues to the agendas at Montana Association of Counties (MACO) meetings to identify what other counties are doing and opportunities for inter-governmental agreements, etc.

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Carter County

Medium Priority

- Implement the Carter County Fire Mitigation Plan.

Dawson County

High Priority

- Train new leadership to meet the identified needs. Determine best method to get training accomplished and implemented.
- Recruit new firefighters as needs determine.
- Fire department leadership will determine their current and future needs for firefighters and leadership positions.
- Identify areas of specialized training, such as fighting fire in the oil fields.

Medium Priority

- Have Fire departments identify private, state and federal properties at risk.
- Fire departments apply for funding of these identified needed new or improved water sources.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Dawson County

Medium Priority

- Look for funding opportunities to provide wildland firefighting equipment for the City of Glendive Fire Dept.
- Convene fire department personnel with other county personnel such as the road crew, local farmers/ranchers and the DES Coordinator to identify and improve existing water sources and establish new key locations for water sources.
- Have firefighters identify areas in the county that need to have new or improved reliable water sources.
- Look for funding sources for training.
- Work with existing firefighters to find out what their training needs are and what specific interest they have.
- Assign an individual or task force to look for funding opportunities for these needs.

Fallon County

High Priority

- Request on-site training in use of NFIRS.
- Work closely with the oil companies to train and equip individuals in the specialized area of response to hydrocarbon incidents.
- In addition to basic wildfire fire fighting courses, host a course in cooperation with oil producers on responding to hydrocarbon incidents.
- Improve SCBA discipline and training for firefighters.
- Develop an annual recruitment plan for each department that includes some or all of the following: coverage in the local media, handout materials, tours, visits to schools and mentoring.
- Maintain currency and skills in fighting timber fires by working with adjacent counties on mutual aid calls and with the DNRC to create opportunities for the Fallon County fire fighters to receive assignments to other fires outside the county.
- Purchase and install in-ground water storage tanks countywide. Cover areas without an option for dry hydrants.
- Proceed with installation of dry hydrants in previously-identified locations.

Medium Priority

- Equip wildland fire apparatus with wildland monitor guns.
- Switch all equipment to DNRC standards.
- Continue to maintain water resources in remote locations.
- Select final location for the Baker Fire Department and construct new facility.
- Retrieve and analyze data at the end of each fire season.
- Establish an all-hazards training facility to train on oil/gas fires, wildfires, structure fires, vehicle fires, hazmat fires and spills, and rescues. Obtain assistance from oil companies to equip and build the facility.

Low Priority

- Develop community and county recognition programs for length of service and special acts.

Garfield County

High Priority

- Purchase portable reservoirs that can be taken to the wildfires.

McCone County

High Priority

- Look into getting some training for fighting fire started by methamphetamine labs.
- Continue training opportunities for firefighters.

Prairie County

High Priority

- Expand information about the need to recruit additional firefighters.
- Continue training opportunities for fire fighters.
- Increase number of persons trained and qualified as Type 3 and Type 4 Incident Commanders in the county.
- Establish needed water sources in key areas.
- Look into providing training on meth lab ignited fires.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Richland County

High Priority

- Continue training opportunities for firefighters.
- Increase number of persons trained and qualified as Type 3 and Type 4 Incident Commanders in Richland County.

Wibaux County

High Priority

- Conduct a training session for firefighters on the hazards of dealing with methamphetamine started fires.

Medium Priority

- Look at opportunities to place fire equipment in other strategic locations within the county.
- Initiate a campaign to have fire extinguishers installed on agricultural equipment such as balers and combines.
- Coordinate with oil field production companies to see if placing fire equipment near the oil fields in the Pine Unit would improve response times.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Dawson County

High Priority

- Plan and install fire breaks around farmstead/ranch improvements and crops. Utilize the local Farm Services Agency personnel to assist in getting this information out to landowners at risk.

Medium Priority

- Request that the BLM and DNRC plan and implement fuels reduction projects in key locations, especially near Wildland Urban Interface boundaries.

Fallon County

Medium Priority

- Complete a demonstration project to create defensible space between CRP land and/or timber and a rural residence. Conduct a tour of the project in cooperation with the Fallon County Conservation District following completion.

Garfield County

Medium Priority

- Encourage and provide funding for homeowners to create defensible space from wildfires around homes and outbuildings using FireWise principles.
- Create and maintain fuel breaks in wildfire hazard areas, particularly around homes and communities.

McCone County

High Priority

- Provide information to CRP landowners to reduce risk to buildings.

Medium Priority

- Encourage BLM/DNRC to plan and implement fuels reduction projects.

Powder River County

Medium Priority

- Encourage and provide funding for homeowners to create defensible space from wildfires around their homes and outbuildings using Firewise principles.

Prairie County

Medium Priority

- Provide information (via FSA and others) to CRP landowners on projects to reduce risk of fire to improvements and buildings.
- Develop a demonstration project.
- Encourage firebreaks around CRP fields and other high fuel areas, such as timber, to protect farmsteads. Re-establish firebreaks on state and federal lands.
- Request that the BLM/DNRC plan and implement strategic fuels reduction projects, especially near Wildland Urban Interface boundaries and continue the ongoing project in the Cedar Creek area.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Richland County

High Priority

- Place firebreaks around CRP fields and residential yard areas to protect farmsteads.

Medium Priority

- Work with the BLM/DNRC to plan and implement strategic fuels reduction projects, especially near Wildland Urban Interface boundaries.
- Provide information (via FSA and others) to CRP landowners on projects to reduce risk of fire to improvements and buildings.

Wibaux County

High Priority

- FSA make available current guidelines and examples that reduce risk of fire to improvements and buildings.

Medium Priority

- Look at opportunities to do fuels reduction projects and continue the work on the projects in the Cedar Creek area.

OBJECTIVE 3.3 - Enhance community awareness of wildfires through education.

Carter County

Medium Priority

- Provide education on defensible space to those living within forested areas.

Dawson County

High Priority

- Develop a demonstration project with a farmer or rancher and promote the defensible space with nearby CRP lands by on-site visits.

Medium Priority

- Place fire danger sign in key road locations to alert locals and non-locals of the fire danger. Suggest one sign to be placed in front of the West Glendive Fire Dept. and one in front of the Richey Fire Dept.
- The Fire Department sponsor a Defensible Space exhibit at the County Fair.
- Utilize the "Living with Fire, A Guide for the Homeowner", a Northern Rockies Fire Prevention Team publication to assist property owners at risk. Fire Dept. personnel will identify and work with these property owners.
- Raise the awareness of residents building new homes to consider defensible space, fire resistant building materials and emergency vehicle access to their property.
- In high fire danger years, especially during the hunting season, develop a fire danger awareness poster directed at sportsmen that will be placed in motels, restaurants, sporting goods stores, bars and service stations.

Fallon County

Medium Priority

- Provide an opportunity to recharge fire extinguishers and combine this with education on requirements for farm equipment and other vehicles.
- Place fire danger signs in Plevna and Baker.

McCone County

High Priority

- Place fire danger sign in Circle.
- Sponsor fire preparedness booth at county fair.
- In high fire danger years prepare a poster for hunting season aimed at sportsmen.

Medium Priority

- Utilize "Living with Fire" publication.

Low Priority

- Publicize the Fire Department's willingness to come to property to give advice on fire danger reduction.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.3 - Enhance community awareness of wildfires through education.

Powder River County

High Priority

- Coordinate with the Montana Department of Natural Resources and Conservation, the U.S. Forest Service, local and area businesses, and schools on wildfire prevention and education opportunities.

Prairie County

Low Priority

- Utilize the "Living with Fire, A Guide for the Homeowner", a Northern Rockies Fire Prevention Team publication to assist property owners at risk. Fire department personnel to identify and work with these property owners.
- In high danger fire years in the hunting season, develop a poster aimed at sportsmen to put in motels, restaurants, bars, sporting good stores, etc.
- Public education campaigns (possibly sponsored by local major businesses).
- Place fire danger indicator signs at entrances to county along major highways.

Richland County

Medium Priority

- Develop a demonstration project for CRP.
- Place fire danger indicator signs along major highways (in areas with more traffic, like near towns).
- In high danger fire years in the hunting season, develop a poster aimed at sportsmen that can be put in motels, restaurants, bars, sporting good stores, schools, etc.
- Public education campaigns.
- Utilize the "Living with Fire, A Guide for the Homeowner", a Northern Rockies Fire Prevention Team publication to assist property owners at risk.

Wibaux County

High Priority

- Have the Fire Department publicize their willingness for firefighters to come to a farm, ranch, business, home and offer suggested methods of reducing fire danger around their properties.

Medium Priority

- Work with the Montana Dept. of Fish, Wildlife and Parks to have information posted at Block Management sign-up locations.
- Place a fire danger rating sign in the town of Wibaux.
- Fire Department sponsor a booth at the County Fair to talk about defensible space for landowners.
- Share information with landowners contained in "Living with Fire, A Guide for the Homeowner" Northern Rockies Coordinating Group publication.

Low Priority

- Develop information (such as posters, flyers, placemats, and other) aimed at sportsmen to put in motels, restaurants, bars, etc.

OBJECTIVE 3.5 - Enhance effectiveness of response and evacuation.

Carter County

Medium Priority

- Maintain and improve access to public and private forest lands.

Dawson County

Medium Priority

- Identify areas where there are fire equipment access issues that can be worked on to improve effectiveness of fire responses.
- Work with the county roads department to identify and improve poor road access into critical areas.

Fallon County

High Priority

- Contact oil companies with pipelines under Baker Lake to develop training and/or a response plan in the event a pipeline ruptures under the water.
- Obtain navigation systems for each ambulance to ensure shortest response time.
- Implement E-911 reverse call-up function. Raise public awareness about this capability.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.5 - Enhance effectiveness of response and evacuation.

Fallon County

High Priority

- Obtain handheld GPS units for departments' vehicles.

Medium Priority

- Assign incident reporting to one individual in each department.

Prairie County

High Priority

- Establish Standard Operating Procedures that facilitate the efficient dispatch of trucks and equipment to fires.

OBJECTIVE 3.6 - Establish mapping or record keeping practices to support fuel management strategies.

Dawson County

Medium Priority

- Ask Farm Services Agency to share information with CRP landowners about new changes (2002) in CRP rules for fire protection.

Fallon County

Medium Priority

- Develop GIS capability and fire/fuel map layers.

GOAL 4 - Minimize economic impacts of drought.

OBJECTIVE 4.1 - Identify water retention projects that could lessen the effects of drought.

McCone County

High Priority

- Encourage producers to continue to use and expand methods to minimize moisture loss.
- Address leaky water supply lines in town of Circle.

OBJECTIVE 4.2 - Provide education and incentives for minimizing the effects of drought.

Dawson County

Medium Priority

- Provide tools and training for producers on drought options related to cropping and livestock operations.
- Provide water use and conservation education targeted towards residences covering such things as landscaping and lawn watering.

McCone County

Low Priority

- Water conservation education.

Prairie County

High Priority

- Provide education on water conservation measures for residents of the county and the town of Terry.

Richland County

High Priority

- Provide education on water conservation measures for urban residents as well as agricultural producers.

Wibaux County

High Priority

- To the extent possible, fill vacancies in department, maintain equipment, administer pack test, and provide wildland fire training to volunteers.

Low Priority

- Continue to offer periodic seminars on drought management crop and livestock options.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 4 - Minimize economic impacts of drought.

OBJECTIVE 4.3 - Improve drought monitoring and assessments.

Custer County

Medium Priority

- Purchase drought monitoring equipment.

Low Priority

- Cooperate with all agencies that have an interest in drought to put on workshops and provide educational opportunities.
- Purchase soil moisture monitoring equipment.

Dawson County

High Priority

- Maintain wildfire preparedness.

Medium Priority

- Consider large-scale spray operation for insect infestations as needed.

Low Priority

- Support continued flexibility on use of CRP lands to reduce hazard fuels and provide economic relief to drought-affected producers.

Fallon County

Medium Priority

- Install remote drought monitoring equipment to gather data and document situation.

Prairie County

High Priority

- Have county actively participate in the Governor's Drought Advisory Committee.

Medium Priority

- Encourage and support the Farm Services Agency, Buffalo Rapids Irrigation Project, and others to continue to increase efficiency of water distribution.
- Coordinate with major water suppliers, water managers and users in the county to share information and plans for drought.

Richland County

High Priority

- Develop baseline information on water supply and water use in Richland County.

Medium Priority

- Encourage coordination among water suppliers, water managers and water users in the county to share information and plans for drought.

Low Priority

- Support continued flexibility on use of CRP lands to reduce hazard fuels and provide economic relief to drought-affected producers.

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.1 - Provide adequate warning of flooding events.

Wibaux County

High Priority

- Develop warning system utilizing existing sirens.

OBJECTIVE 5.2 - Reduce the number of current and future structures in the floodplain.

Fallon County

High Priority

- Enforce existing floodplain regulations in Baker area.

Garfield County

Medium Priority

- Approve an ordinance adopting floodplain mapping and establish regulations for flood hazard areas.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.2 - Reduce the number of current and future structures in the floodplain.

Powder River County

High Priority

- Approve and enforce an ordinance adopting floodplain mapping and establishing regulations for flood hazard areas in Powder River County. Educate residents on availability and importance of flood insurance.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Carter County

Medium Priority

- Improve drainage within Ekalaka by installing larger culverts.

Custer County

High Priority

- Based upon the surface water runoff model for Miles City, determine what can be done to address historic and recurring drainage problem locations such as the underpass.
- Develop projects to address identified infrastructure vulnerabilities.
- Develop a surface water runoff model for Miles City.
- Conduct a thorough evaluation of assets by specific location vulnerable to riverine and flash flooding including storm sewer system, roads, bridges, culverts, critical facilities, and other infrastructure.
- Clean out storm water drainage system to enhance performance during heavy precipitation events.

Dawson County

High Priority

- Select an alternative and move forward with resolving the issue of structures and infrastructure located in the 100-year floodplain in Glendive.
- Design and install gauges at Cabin Creek by Gibb's Ranch and the Interstate bridge on the north side of Glendive to provide information for flood warnings.

Medium Priority

- Improve Road 130 (Marsh Rd) to an all-weather road, able to carry traffic in the event of Yellowstone River flooding in the interstate corridor.
- Stabilize the river bank to protect bridge pilings by the Black railroad bridge.
- Install floodgates at Cain's Coulee crossing.

Fallon County

High Priority

- Develop a drainage plan for the city of Baker.
- Develop a plan for maintenance of the Baker Lake spillway.
- Develop a joint written floodplain policy for the city and county to ensure consistent handling of floodplain activities.
- Replace City Shop bridge.
- Monitor and provide input to joint effort with City of Baker and Montana Dept. of Transportation on Highway 7 south storm water system project.

Garfield County

Medium Priority

- Target roads vulnerable to wet weather for relocation, elevation and surface improvements, and upgrade culverts and bridges.

McCone County

High Priority

- Assess road capacity to handle flood events and mitigate as necessary.

Powder River County

High Priority

- Install sewer backflow prevention valves on new residential sewer connections in the town of Broadus.
- Increase the capacity of the Broadus water and sewer infrastructure to handle floodwaters and evaluate the potential for sewer lagoon overflows.
- Evaluate bridges and culverts throughout the county for flood capacities and replace hazardous structures in flood prone areas.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Powder River County

High Priority

- Install sewer backflow prevention valves on critical and special needs facilities.

Medium Priority

- Lower the Powder River Clinic parking lot to keep runoff from flowing into the Clinic.
- Implement flood control measures in the Crane Acres subdivision to minimize flood problems.
- Remove the old bridge abutments and debris from the Powder River.

Prairie County

High Priority

- Develop projects to improve storm drainage in the town of Terry.

Medium Priority

- Coordinate with the Conservation District and others already working on Yellowstone River issues.

Richland County

High Priority

- Examine options for flood-proofing the sewage lagoons in Sidney and Savage, which could be threatened by Yellowstone River flooding.
- Develop a regular monitoring and protocol for ensuring that Lone Tree Creek drainage can free-flow.
- Identify the risks of the sewer line across Lone Tree Creek and develop appropriate mitigation.
- Continue to assess standards for rebuilding roads, bridges, etc. in areas that experience multiple flood events.
- Work with Montana Department of Transportation to identify flood-damage risk and mitigation as necessary for the Highway 16 bridge across Lone Tree Creek.
- Work with the railroad to develop the necessary drainage improvements along their right-of-way.

Medium Priority

- Assess the need to enlarge the storm drain pipe size.
- Assess methods to reduce ice from forming and creating jams for storm water flow.
- Continue to investigate potential for flood controls on Lone Tree Creek.

Wibaux County

High Priority

- Back-up irreplaceable town and county records off-site.

Medium Priority

- Request a study by the Montana Dept. of Transportation on redesigning and replacing the bridge on Highway 7 south of Wibaux to reduce constriction of the floodway.
- Determine a location and stockpile a small amount of sand and sand bags. Let all responders know where this location is.

OBJECTIVE 5.4 - Increase the public awareness of flood mitigation.

Custer County

High Priority

- Use the radio and other media to run informational spots and provide printed materials on what to do before and during a flood.

Dawson County

Medium Priority

- Place seasonal reminders in the media about flash floods annually.

Fallon County

High Priority

- Make information about floodplain requirements available to the public.

Wibaux County

High Priority

- Educate citizens about the warning system and what to do in the event of a flood of Beaver Creek.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.5 - Improve the effectiveness of the flood insurance programs.

Custer County

High Priority

- Determine ways to reduce flood insurance premiums.

McCone County

Low Priority

- Examine county participation in national flood insurance program.

Prairie County

High Priority

- Initiate steps to enter into the National Flood Insurance Program, including the development of Flood Insurance Rate maps.

OBJECTIVE 5.6 - Reduce the risk of dam or levee failure.

Custer County

High Priority

- Ensure the long-term integrity of the Miles City dike.

Fallon County

High Priority

- Install remote monitoring system for Baker Lake dam.

McCone County

Low Priority

- Identify alert procedure for Fort Peck Dam failure and identify any potential improvements.
- Examine methods to reduce dam failure, including public education.

Richland County

Medium Priority

- Assist with identifying funding options for dam owners to make improvements as needed for downstream safety.
- Facilitate information from Montana DNRC and other sources to area dam owners about dam maintenance and responsibilities.

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.1 - Increase community capabilities to mitigate winter weather hazards.

Carter County

Medium Priority

- Construct all-weather storage building for equipment.

Custer County

High Priority

- Have county dispatch broadcast severe weather warnings to all emergency service entities as severe weather situations develop.

Medium Priority

- Put on weather spotter training in the county.
- Identify and mark snow routes in Miles City.
- Publish the county road snow removal policy and priorities annually in the fall of each year.

Low Priority

- Purchase weather radios for all remaining public buildings.

Dawson County

High Priority

- Place a NOAA weather radio in every critical facility, public building, school and day care center in the county.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.1 - Increase community capabilities to mitigate winter weather hazards.

Dawson County

Medium Priority

- Set up and test existing generator so that the school could be powered in the event of a winter storm that causes loss of power in the town of Richey.
- Improve coverage, timeliness and accuracy of weather information across the county.

Fallon County

High Priority

- Ensure adequate power for Plevna in the event of a winterstorm power outage.
- Obtain a back-up power source for Plevna that can power both the firehall and well/water system.

Garfield County

High Priority

- Work with McCone Electric Cooperative to strengthen or bury electric distribution lines or other measures to prevent winter power outages.
- Investigate becoming a StormReady Community.

Powder River County

High Priority

- Encourage the Montana Dept. of Transportation to revise guidelines for passing areas near hills and curves and the placement of guard rails, and changing mile markers to avoid confusion for emergency responders.

Medium Priority

- Widen and improve Cemetery Road due to high volumes of truck traffic.
- Purchase and install gates and related signage to physically close off highways during emergencies and coordinate with neighboring counties on road closures.

Prairie County

High Priority

- Work with the Montana Dept. of Transportation and law enforcement to develop policies for closing the interstate at locations that divert storm-bound travelers to Glendive or Miles City, rather than Terry.
- Work to enforce road closures and notices sooner so that there are fewer weather related accidents and travelers stranded on the roadways.

Richland County

High Priority

- Identify and mark snow routes and schedules and publicize the information.

Medium Priority

- Investigate options for reporting weather conditions aimed at travelers throughout the county.

Wibaux County

High Priority

- Obtain a weather service repeater for Wibaux.
- Obtain generator(s) to provide back-up power to run the water well pumps, power the school, firehall and courthouse.

Medium Priority

- Identify shelter locations and develop shelter agreements with the Red Cross.

OBJECTIVE 6.2 - Increase public awareness of winter weather hazards.

Carter County

Medium Priority

- Provide education for the public on winter survival.

Custer County

Medium Priority

- Work with Mid-Rivers and other media to broadcast weather warning information.
- Make the public aware of sources they can access directly, and disseminate existing current and pending weather information such as the MDOT information, information from NOAA, and 511.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.2 - Increase public awareness of winter weather hazards.

Custer County

Medium Priority

- Print documents with information about winter survival.
- Provide winter survival information to caregivers.
- Utilize radio and other media to run informational spots on how to stay safe during severe winter weather.

Dawson County

Low Priority

- Provide brochures/information on how to cope with severe weather and weather information numbers.
- Conduct winter safety/survival workshops in local communities.

Wibaux County

Low Priority

- Educate citizens about how to prepare for a winter storm and what to do during a winter storm.

GOAL 7 - Reduce impacts from severe summer weather.

OBJECTIVE 7.1 - Increase community capabilities to mitigate summer weather hazards.

Custer County

Low Priority

- Purchase weather radios for all remaining public buildings.

Dawson County

Medium Priority

- Address the hazard associated with tin blowing off the unused grain elevator in Richey.

Fallon County

High Priority

- Request more advanced technology to provide more timely and accurate weather coverage of the county.

Medium Priority

- Install a siren in Plevna.
- Determine location and install additional siren(s) in Baker.

Low Priority

- Purchase and distribute additional weather radios.

OBJECTIVE 7.2 - Increase public awareness of ways to mitigate summer weather hazards.

Carter County

Medium Priority

- Provide education for extreme summer storms.

Custer County

High Priority

- Have county dispatch broadcast severe weather warnings to all emergency service entities as severe weather situations develop.

Medium Priority

- Put on weather spotter training in the county.
- Work with Mid-Rivers and other media to broadcast weather warning information.

Dawson County

Medium Priority

- Educate residents engaged in sports, outdoor recreation, and outdoor occupations on what to do in lightning, wind and severe summer weather events.

Fallon County

Medium Priority

- Offer a session for school children and adults on recognizing severe weather and behaving safely in severe weather.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 7 - Reduce impacts from severe summer weather.

OBJECTIVE 7.2 - Increase public awareness of ways to mitigate summer weather hazards.

Wibaux County

High Priority

- Educate the public about the siren warning system.

Low Priority

- Partner with insurance companies to offer information on building materials and techniques for wind-resistant new construction.
- Educate the public about what to do during an extreme wind event.

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.1 - Provide education, training on haz-mat incidents and response.

Custer County

Low Priority

- Prepare contingency plans for a derailment or hazmat spill.
- Cooperate with Burlington Northern Santa Fe on training opportunities for all emergency responders on railroad incidents.

Dawson County

High Priority

- Identify and offer hazmat training to all first responders.

Medium Priority

- Educate residents about what to do in the event of a hazardous material spill and make shelter-in-place brochures available to residents.
- Request a list of the top 25 hazardous materials transported through the county on the railroad from BNSF.
- Develop an evacuation/warning plan for Richey in the event of an anhydrous ammonia leak or other hazmat spill or release. Include use of siren system.

McCone County

High Priority

- Acquire Hazmat spill kits and continue to ensure staff training in use of the kits.

Wibaux County

High Priority

- Request a list of the top 25 hazardous materials being transported through the county by rail from BNSF.
- Develop an evacuation plan for the town of Wibaux.

Medium Priority

- Educate residents about what to do in the event of a hazardous material spill or leak.
- Continue to provide hazardous material incident training for responders.

OBJECTIVE 8.2 - Identify and secure hazardous materials locations and transporters.

Dawson County

High Priority

- Secure the Harvest States anhydrous ammonia plant in Richey to prevent accidental or unauthorized access.
- Look into a regulatory mechanism for managing parking and transport of vehicles carrying hazardous materials through Richey.
- Fence the Cenex anhydrous ammonia tank farm in the Glendive area.

Medium Priority

- Map all hazardous material locations in the county and distribute maps to first responders.

Garfield County

Medium Priority

- Survey the number and types of hazardous materials passing through Garfield County and update risk assessment.

LOCAL MITIGATION PROJECTS

DES DISTRICT 4

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.2 - Identify and secure hazardous materials locations and transporters.

Powder River County

High Priority

- Purchase and install concrete barriers to protect businesses and other facilities from intentional or accidental car crashes.

Richland County

High Priority

- Identify an alternative truck bypass route for Sidney.

GOAL 10 - Reduce the likelihood of communicable disease outbreaks.

OBJECTIVE 10.1 - Reduce losses associated with a human health emergency.

McCone County

High Priority

- Assess need for and extent of a mosquito control district.

Prairie County

High Priority

- Examine the need to expand the 1 mile mosquito control area for West Nile Virus. Consider need for a mosquito control area around Fallon.

GOAL 11 - Encourage mitigation of potentially devastating but historically less frequent hazards.

OBJECTIVE 11.1 - Prevent losses from acts of terrorism, violence and civil unrest.

Powder River County

High Priority

- Increase security measures at key water and electric infrastructure locations.
- Restrict access to 911 dispatch work areas and install bulletproof glass in the dispatch window.

Medium Priority

- Investigate and implement reasonable security measures for the schools.
- Install security cameras in the County Courtroom.
- Install a panic alarm in the County Commissioners' Office.